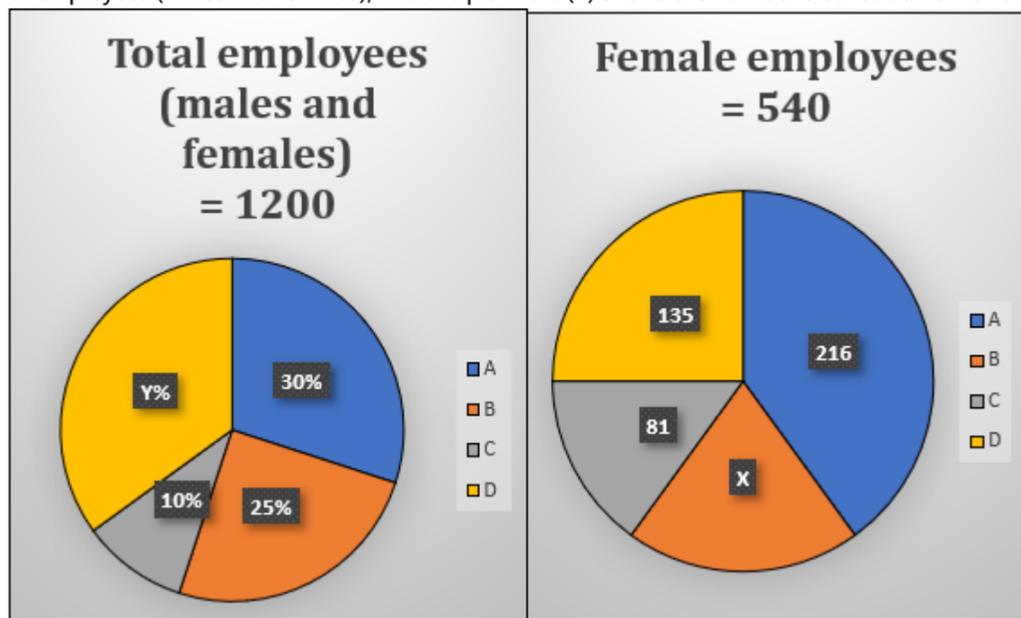


OICL AO Mains Quant Memory Based Paper (28 February 2026, Shift 1) Part - A

**Q.1** Find the ratio between the total number of male employees in A and B together to the total number of female employees in D.  
Read the following pie chart carefully and answer the questions given below. The pie chart (I) shows the percentage distribution of the total number of employees (males and females), and the pie chart (II) shows the number distribution of female employees in four different companies.

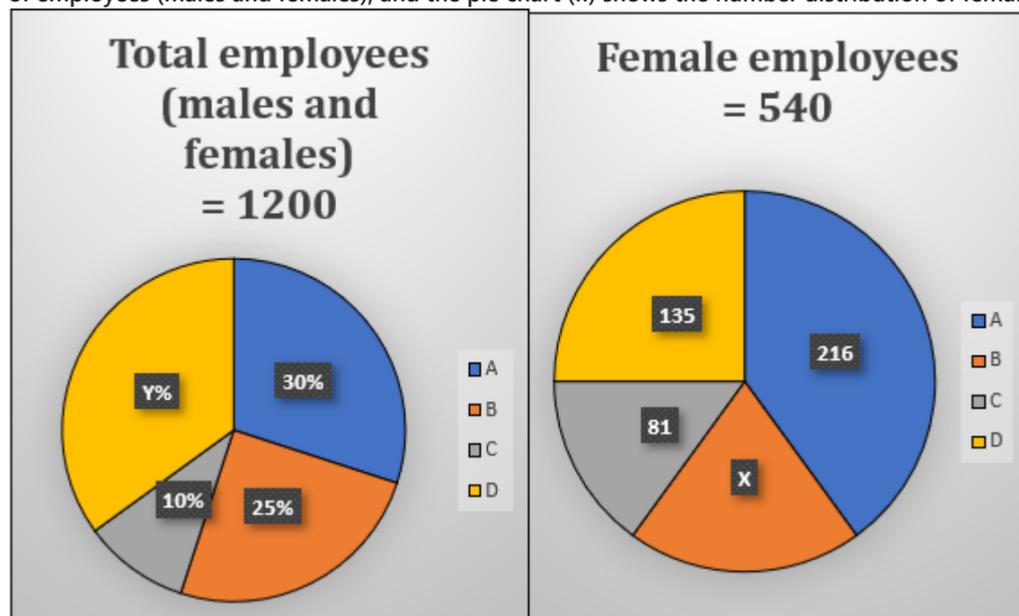


- A. 111:46
- B. 112:45
- C. 110:47
- D. 113:49
- E. 115:43

**Answer:** B

**Sol:** Percentage of total employees (males and females) in D =  $(100 - (30 + 25 + 10))\% = 35\%$   
 Female employees in B =  $540 - (216 + 81 + 135) = 108$   
 $Y = 35, X = 108$   
 Total employees (males and females) in A =  $1200 \times 30/100 = 360$   
 Total employees (males and females) in B =  $1200 \times 25/100 = 300$   
 Total employees (males and females) in C =  $1200 \times 10/100 = 120$   
 Total employees (males and females) in D =  $1200 \times 35/100 = 420$   
 Male employees in A =  $360 - 216 = 144$   
 Male employees in B =  $300 - 108 = 192$   
 Male employees in C =  $120 - 81 = 39$   
 Male employees in D =  $420 - 135 = 285$   
 Required ratio =  $(144 + 192) : 135$   
 $= 336 : 135 = 112 : 45$

**Q.2** Total number of male employees in C is how much percentage more or less than the total number of female employees B (approx.)?  
Read the following pie chart carefully and answer the questions given below. The pie chart (I) shows the percentage distribution of the total number of employees (males and females), and the pie chart (II) shows the number distribution of female employees in four different companies.



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- A. 64%
- B. 69%
- C. 45%
- D. 41%
- E. 57%

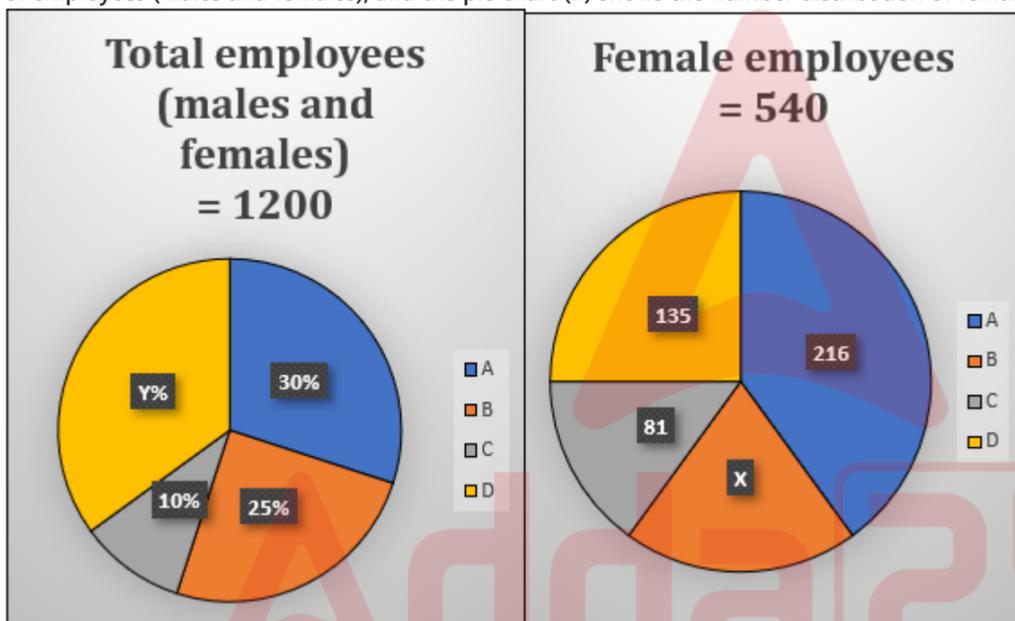
**Answer:** A

**Sol:**

Percentage of total employees (males and females) in D =  $(100 - (30 + 25 + 10))\% = 35\%$   
 Female employees in B =  $540 - (216 + 81 + 135) = 108$   
 $Y = 35, X = 108$   
 Total employees (males and females) in A =  $1200 \times 30/100 = 360$   
 Total employees (males and females) in B =  $1200 \times 25/100 = 300$   
 Total employees (males and females) in C =  $1200 \times 10/100 = 120$   
 Total employees (males and females) in D =  $1200 \times 35/100 = 420$   
 Male employees in A =  $360 - 216 = 144$   
 Male employees in B =  $300 - 108 = 192$   
 Male employees in C =  $120 - 81 = 39$   
 Male employees in D =  $420 - 135 = 285$   
 Required percentage =  $(108 - 39)/108 \times 100 = 63.88\% \approx 64\%$

**Q.3** Total number of male employees in E is 2X and the total number of female employees in E is (Y+5)% more than that in D. Find the difference between the total employees (males and females) in A and that in E.

Read the following pie chart carefully and answer the questions given below. The pie chart (I) shows the percentage distribution of the total number of employees (males and females), and the pie chart (II) shows the number distribution of female employees in four different companies.



- A. 60
- B. 40
- C. 55
- D. 50
- E. 45

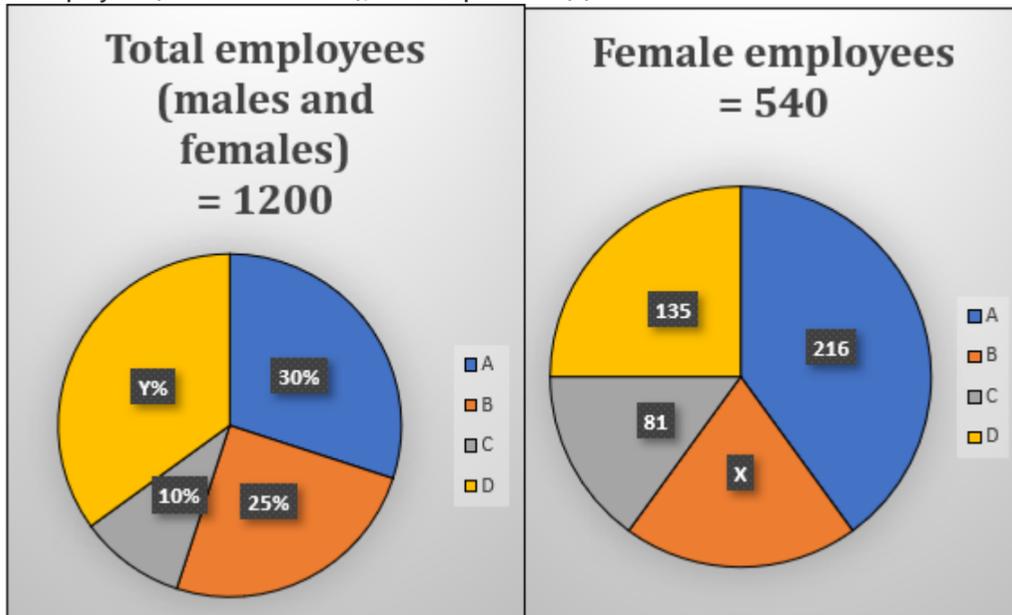
**Answer:** E

**Sol:**

Percentage of total employees (males and females) in D =  $(100 - (30 + 25 + 10))\% = 35\%$   
 Female employees in B =  $540 - (216 + 81 + 135) = 108$   
 $Y = 35, X = 108$   
 Total employees (males and females) in A =  $1200 \times 30/100 = 360$   
 Total employees (males and females) in B =  $1200 \times 25/100 = 300$   
 Total employees (males and females) in C =  $1200 \times 10/100 = 120$   
 Total employees (males and females) in D =  $1200 \times 35/100 = 420$   
 Male employees in A =  $360 - 216 = 144$   
 Male employees in B =  $300 - 108 = 192$   
 Male employees in C =  $120 - 81 = 39$   
 Male employees in D =  $420 - 135 = 285$   
 Total number of male employees in E =  $2X = 2 \times 108 = 216$   
 Total number of female employees in E =  
 $135 \times \left(1 + \frac{(35+5)}{100}\right) = 135 \times \frac{140}{100} = 189$   
 Total employees (males and females) in E =  $216 + 189 = 405$   
 Required difference =  $405 - 360 = 45$

**Q.4** 20% of female employees in D are graduates, and the rest are non-graduates. The number of non-graduate male employees in D is 25% more than the number of non-graduate female employees. Find the average number of graduate male employees and the number of non-graduate female employees.

Read the following pie chart carefully and answer the questions given below. The pie chart (I) shows the percentage distribution of the total number of employees (males and females), and the pie chart (II) shows the number distribution of female employees in four different companies.



- A. 128
- B. 132
- C. 134
- D. 129
- E. 130

**Answer:** D

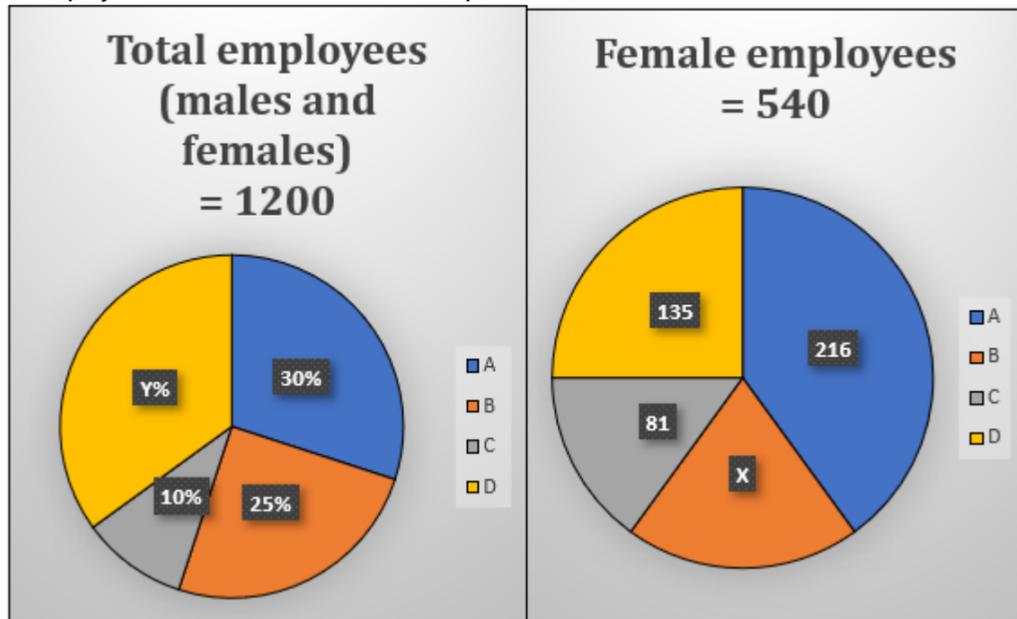
**Sol:**

Percentage of total employees (males and females) in D =  $(100 - (30 + 25 + 10))\% = 35\%$   
 Female employees in B =  $540 - (216 + 81 + 135) = 108$   
 $Y = 35, X = 108$   
 Total employees (males and females) in A =  $1200 \times 30 / 100 = 360$   
 Total employees (males and females) in B =  $1200 \times 25 / 100 = 300$   
 Total employees (males and females) in C =  $1200 \times 10 / 100 = 120$   
 Total employees (males and females) in D =  $1200 \times 35 / 100 = 420$   
 Male employees in A =  $360 - 216 = 144$   
 Male employees in B =  $300 - 108 = 192$   
 Male employees in C =  $120 - 81 = 39$   
 Male employees in D =  $420 - 135 = 285$   
 Total number graduate female employees in D = 20% of 135 = 27  
 Total number non-graduate female employees in D =  $135 - 27 = 108$   
 The number of non-graduate male employees in D = 125% of 108 = 135  
 The number of graduate male employees in D =  $285 - 135 = 150$   
 Required average =  $(150 + 108) / 2 = 129$

**Q.5** The total number of female employees in B is what percentage of the difference between the total number of employees (males and females) in C and D?

Read the following pie chart carefully and answer the questions given below. The pie chart (I) shows the percentage distribution of the total number

of employees (males and females), and the pie chart (II) shows the number distribution of female employees in four different companies.



- A. 31%
- B. 36%
- C. 34%
- D. 33%
- E. 39%

**Answer:** B

**Sol:**

Percentage of total employees (males and females) in D =  $(100 - (30 + 25 + 10))\% = 35\%$   
 Female employees in B =  $540 - (216 + 81 + 135) = 108$   
 $Y = 35, X = 108$   
 Total employees (males and females) in A =  $1200 \times 30/100 = 360$   
 Total employees (males and females) in B =  $1200 \times 25/100 = 300$   
 Total employees (males and females) in C =  $1200 \times 10/100 = 120$   
 Total employees (males and females) in D =  $1200 \times 35/100 = 420$   
 Male employees in A =  $360 - 216 = 144$   
 Male employees in B =  $300 - 108 = 192$   
 Male employees in C =  $120 - 81 = 39$   
 Male employees in D =  $420 - 135 = 285$   
 Required percentage =  $\frac{108}{420 - 120} \times 100 = 36\%$